

FIG. 1
(Prior Art)

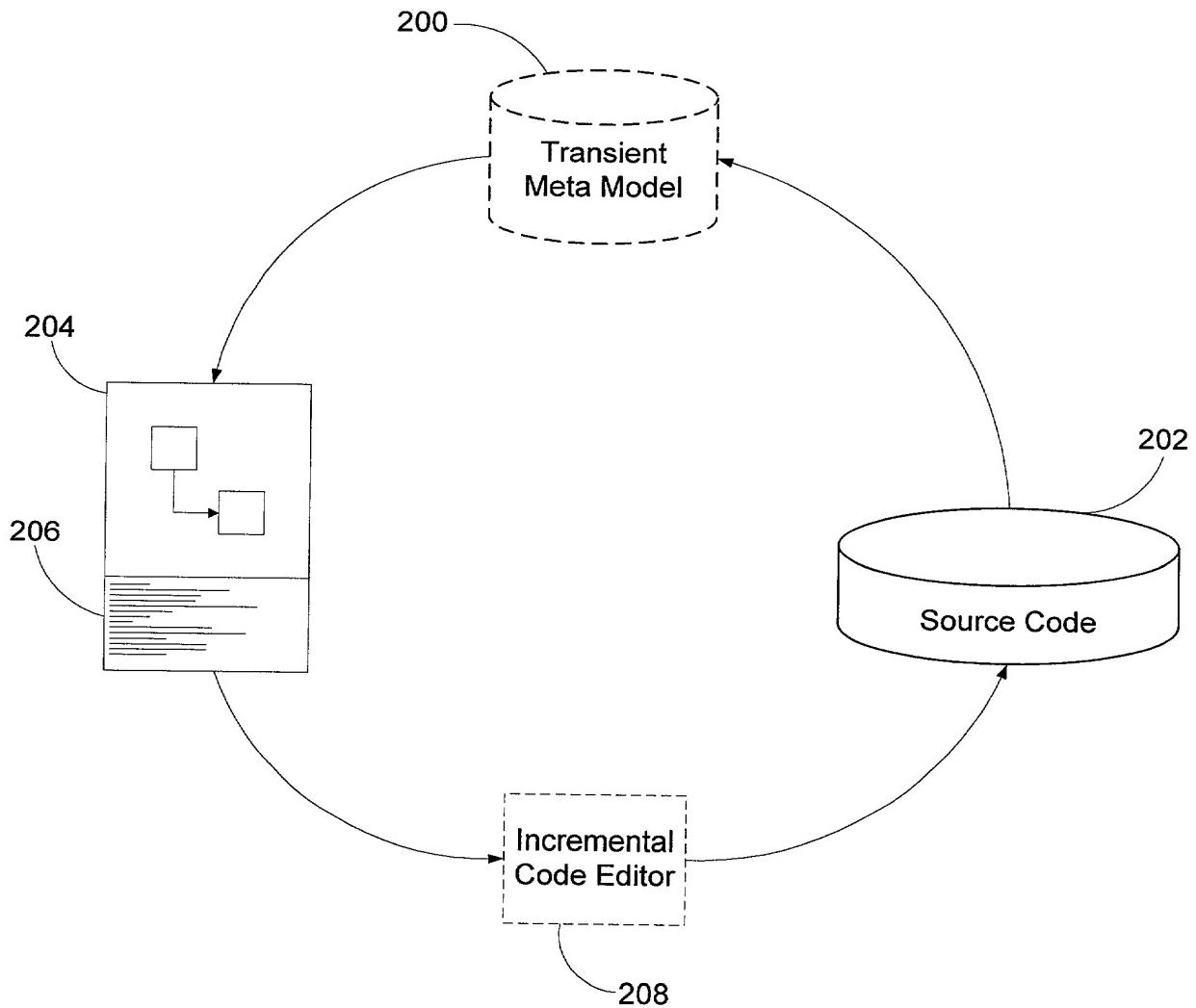
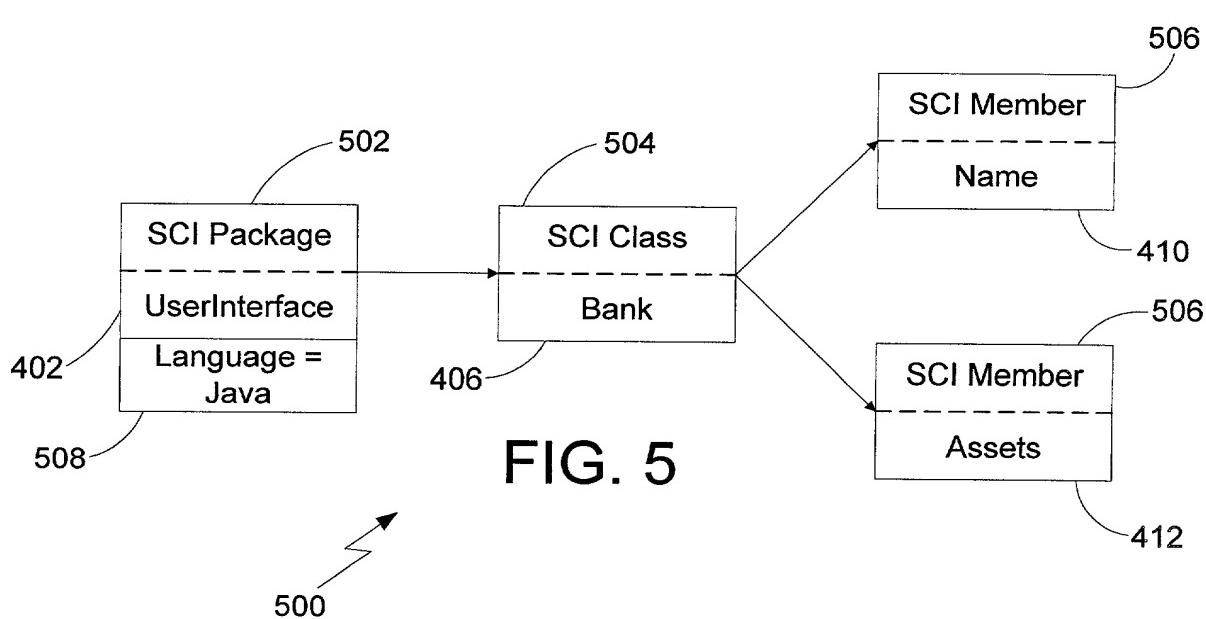
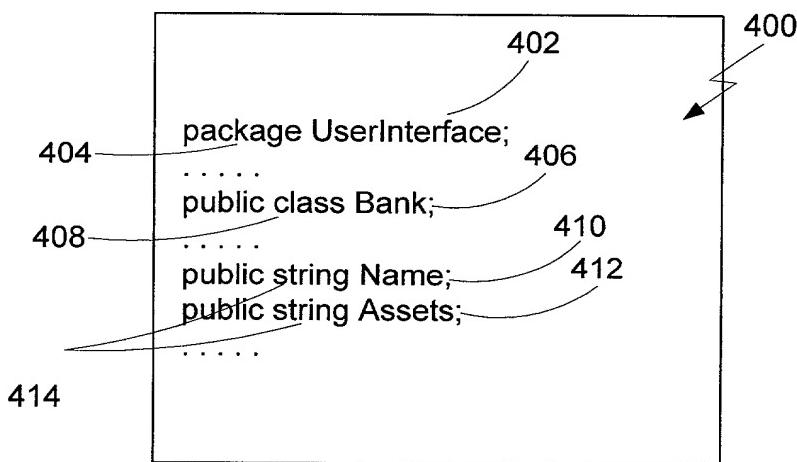
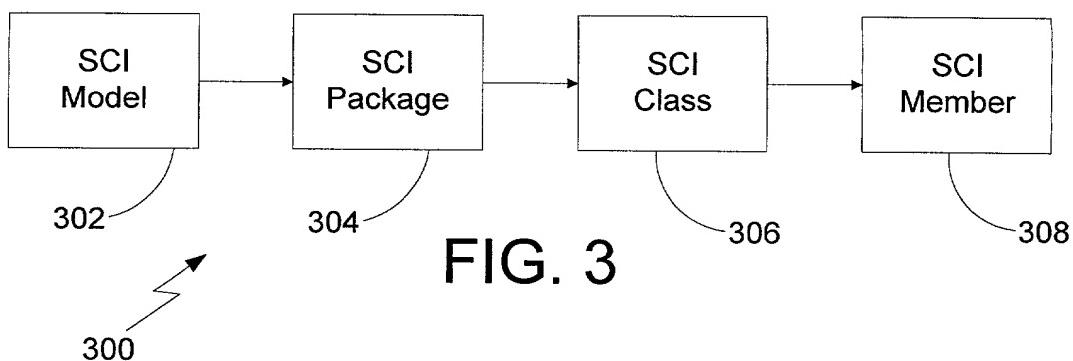


FIG. 2



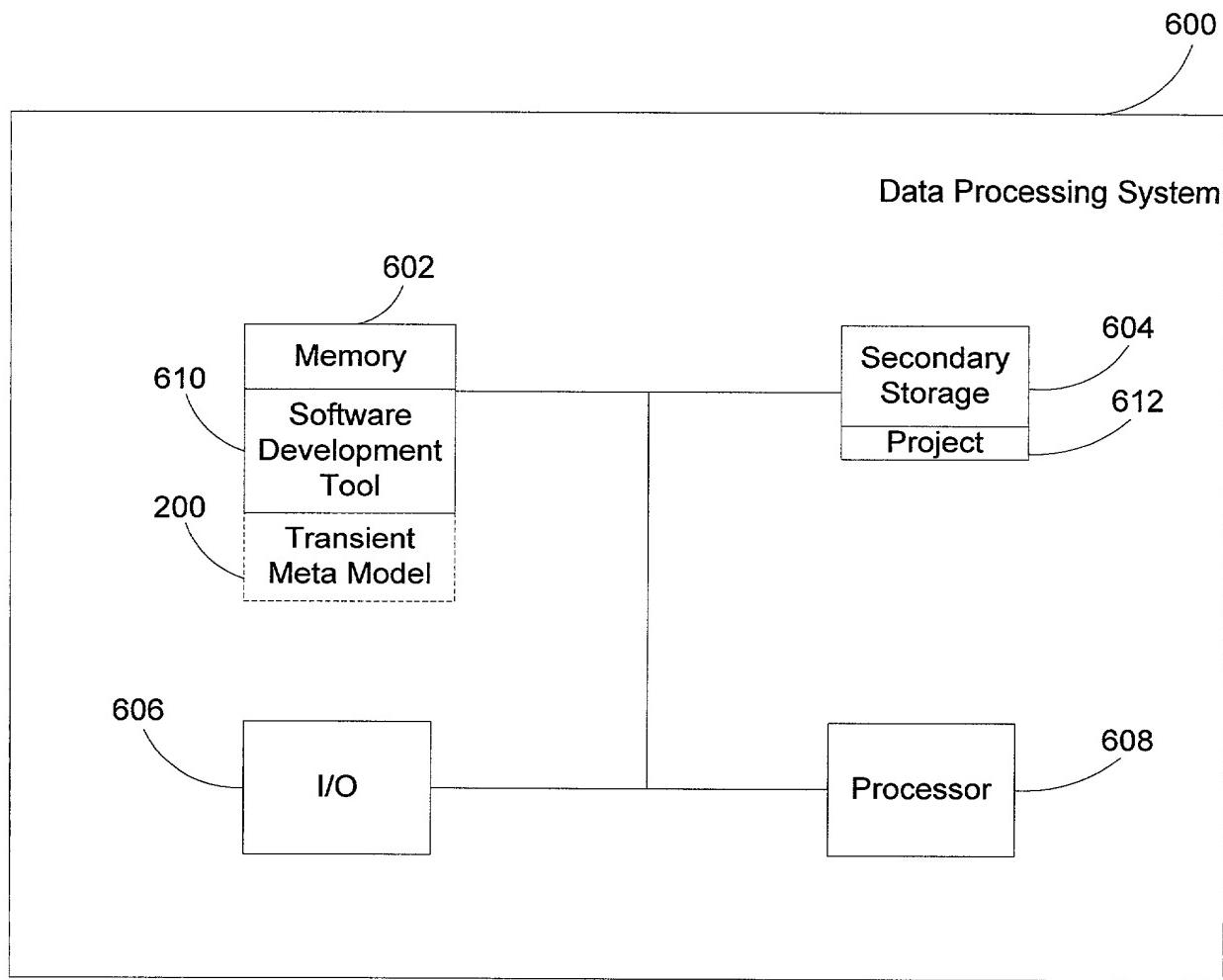


FIG. 6

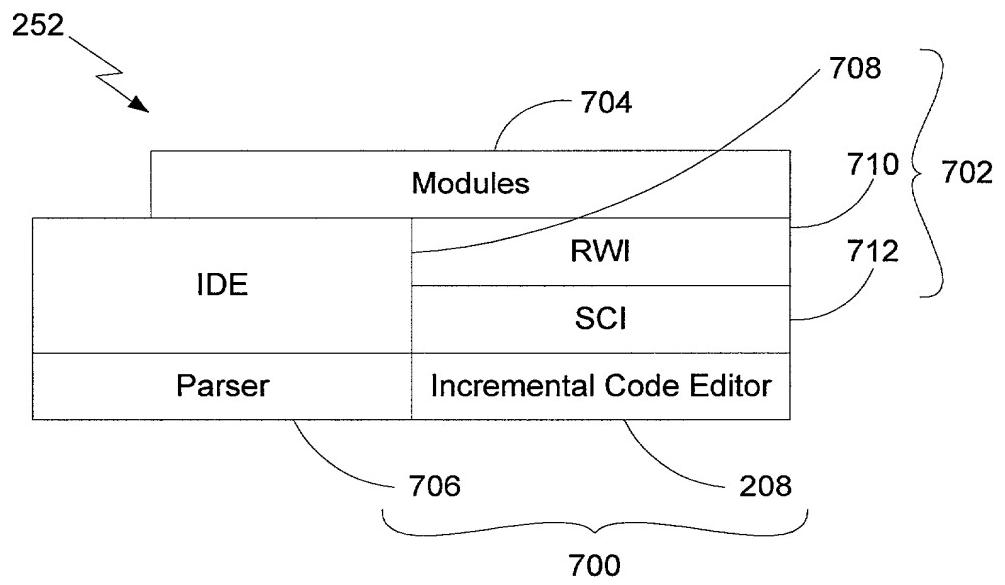


FIG. 7

QA Audit

Title	Abbreviation	Chosen	Severity	High
<input type="checkbox"/> Coding Style	AOSMTO	<input checked="" type="checkbox"/>	800	
<input type="checkbox"/> Access Of Static Members Through Objects		<input checked="" type="checkbox"/>	802	
Assignment To Formal Parameters	ATFP	<input checked="" type="checkbox"/>		
Complex Assignment	CA	<input checked="" type="checkbox"/>		
Don't Use the Negation Operator Frequently	DUNOF	<input checked="" type="checkbox"/>		
Operator '?' May Not Be Used	OMNBU	<input checked="" type="checkbox"/>		
Provide Incremental In For-Statement or use w...	PIFS	<input checked="" type="checkbox"/>		
Replacement For Demand Imports	RFDI	<input checked="" type="checkbox"/>		
Use Abbreviated Assignment Operator	UAAO	<input checked="" type="checkbox"/>		
Use 'this' Explicitly To Access Class Members	UTETACM	<input checked="" type="checkbox"/>		
<input type="checkbox"/> Critical Errors		<input checked="" type="checkbox"/>		
Avoid Hiding Inherited Attributes	AHIA	<input checked="" type="checkbox"/>		
Avoid Hiding Inherited Static Methods	AHISM	<input checked="" type="checkbox"/>		
Command Query Separation	CQS	<input checked="" type="checkbox"/>		
Hiding Of Names	HON	<input checked="" type="checkbox"/>		
Inaccessible Constructor Or Method Matches	ICCOMM	<input checked="" type="checkbox"/>		
Multiple Visible Declarations With Same Name	MVDWSN	<input checked="" type="checkbox"/>		
Overriding a Non-Abstract Method With an Ab...	ONAMWAM	<input checked="" type="checkbox"/>		
Overriding a Private Method	OPM	<input checked="" type="checkbox"/>		

Select all **Unselect all** **Save defaults** **Save set As...** **Local set**

AOSMTO - Access Of Static Members Through Objects

Static members should be referenced through class names rather than through objects.

804

FIG. 8A

806

OA Audit

Title	Abbreviation	Chosen	Severity	Normal
Complex Assignment	CA	<input checked="" type="checkbox"/>		
Don't Use the Negation Operator Frequently	DUNOF	<input checked="" type="checkbox"/>		
Operator '?' May Not Be Used	OMNBU	<input checked="" type="checkbox"/>		
Provide Incremental In For-Statement or use w...	PIIFS	<input checked="" type="checkbox"/>		
Replacement For Demand Imports	RFDI	<input checked="" type="checkbox"/>		
Use Abbreviated Assignment Operator	UAAO	<input checked="" type="checkbox"/>		

Select all **Unselect all** **Set defaults** **Save set As...** **Load set...**

CA - Complex Assignment

Checks for the occurrence of multiple assignments and assignments to variables within the same expression. Too complex assignments should be avoided since they decrease program readability.

Wrong

```
// compound assignment
i *= j++;
k = j = 10;
l = j += 15;
// nested assignment
m = j++ + 20;
n = (j = 35) + 30;
```

Tip: Break statement into several ones.

Start **Cancel** **Help**

808

810

FIG. 8B

806

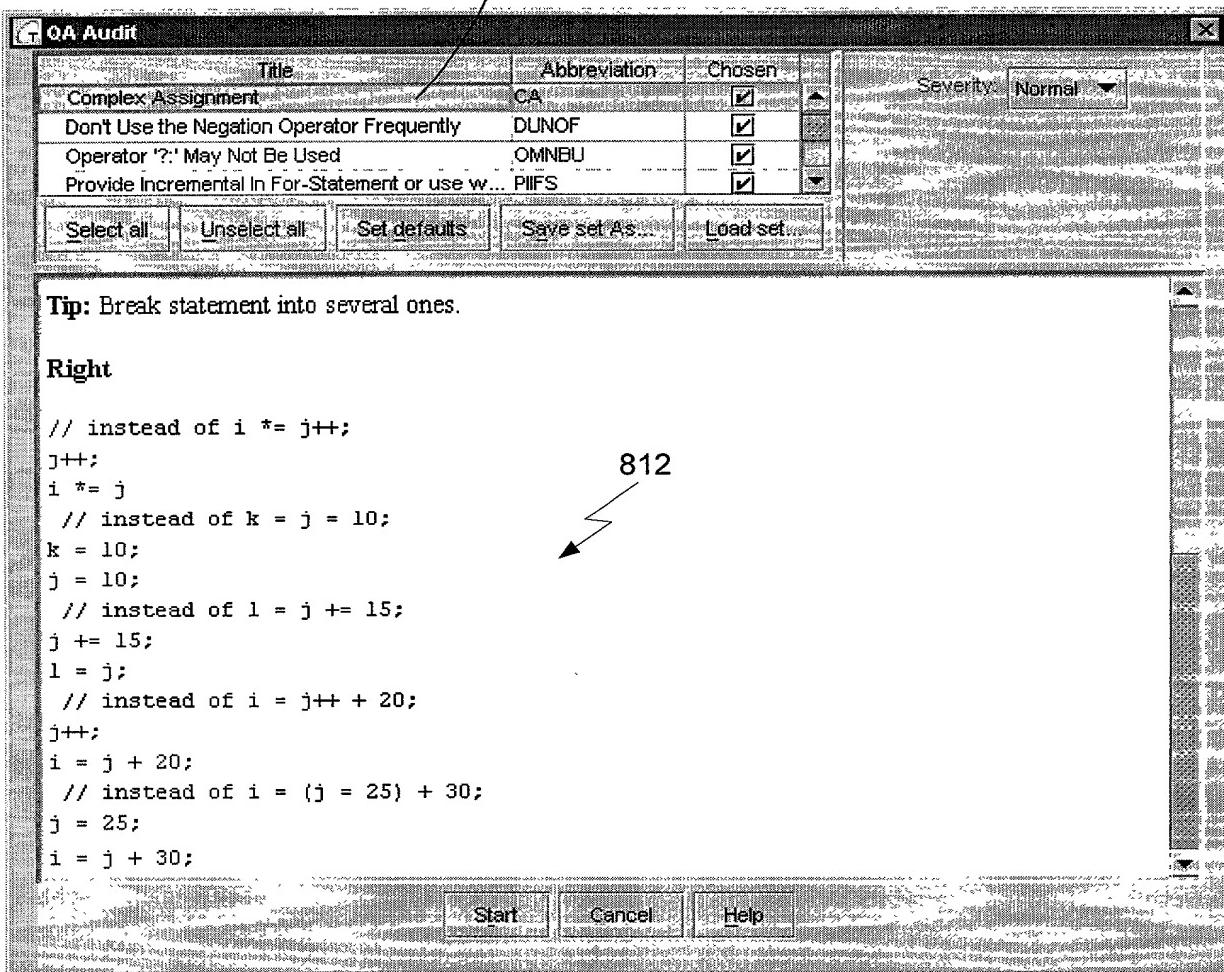


FIG. 8C

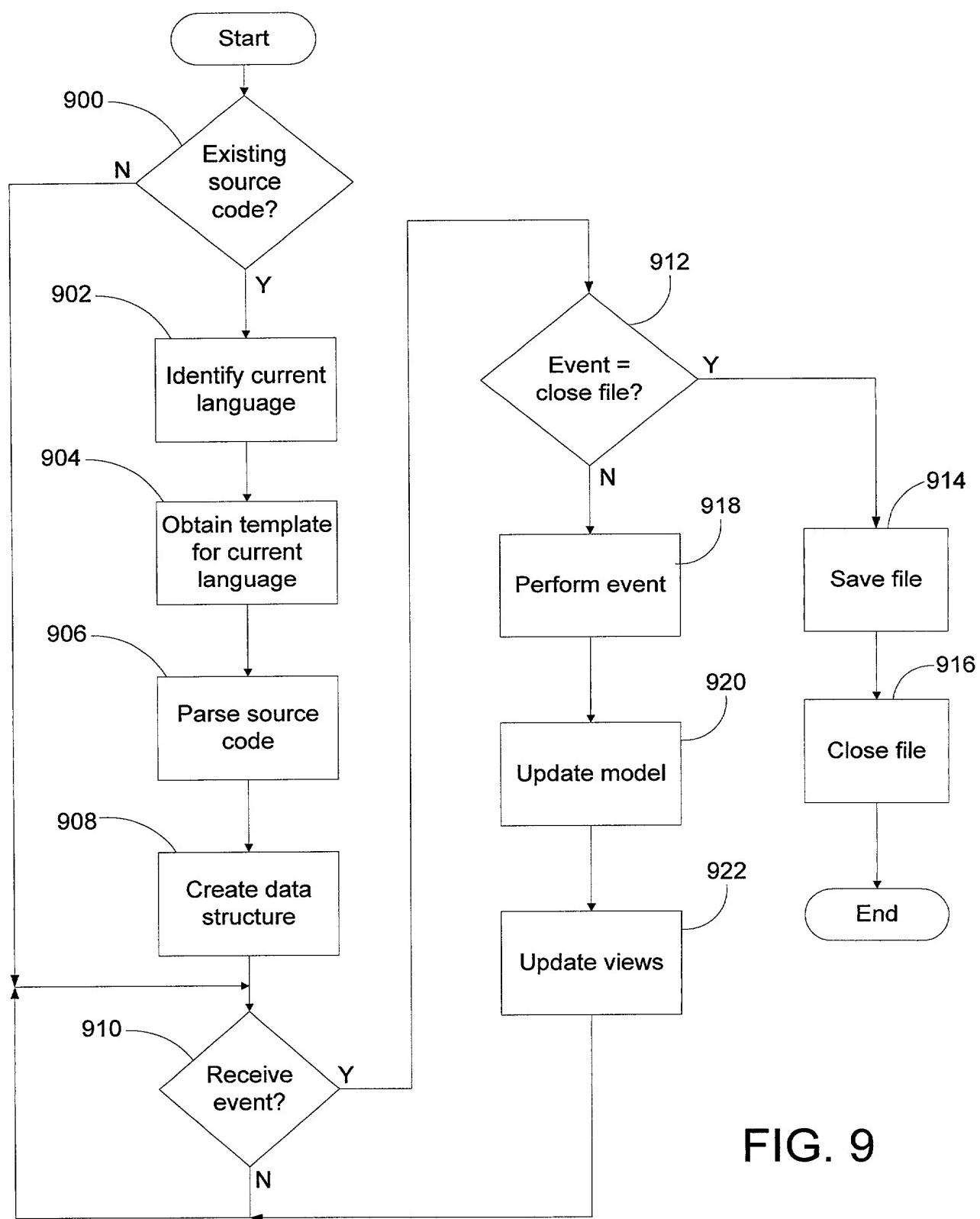


FIG. 9

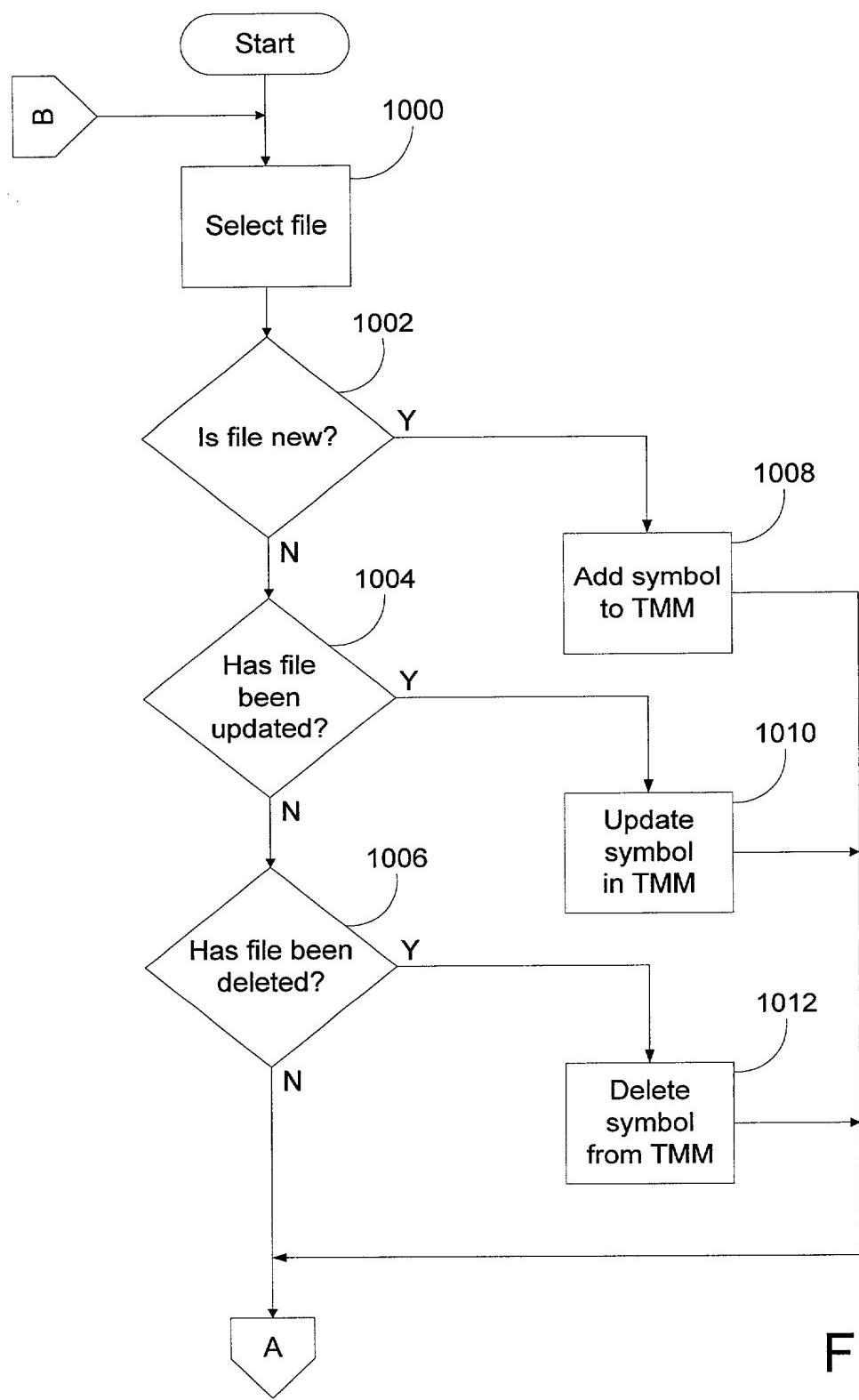


FIG. 10A

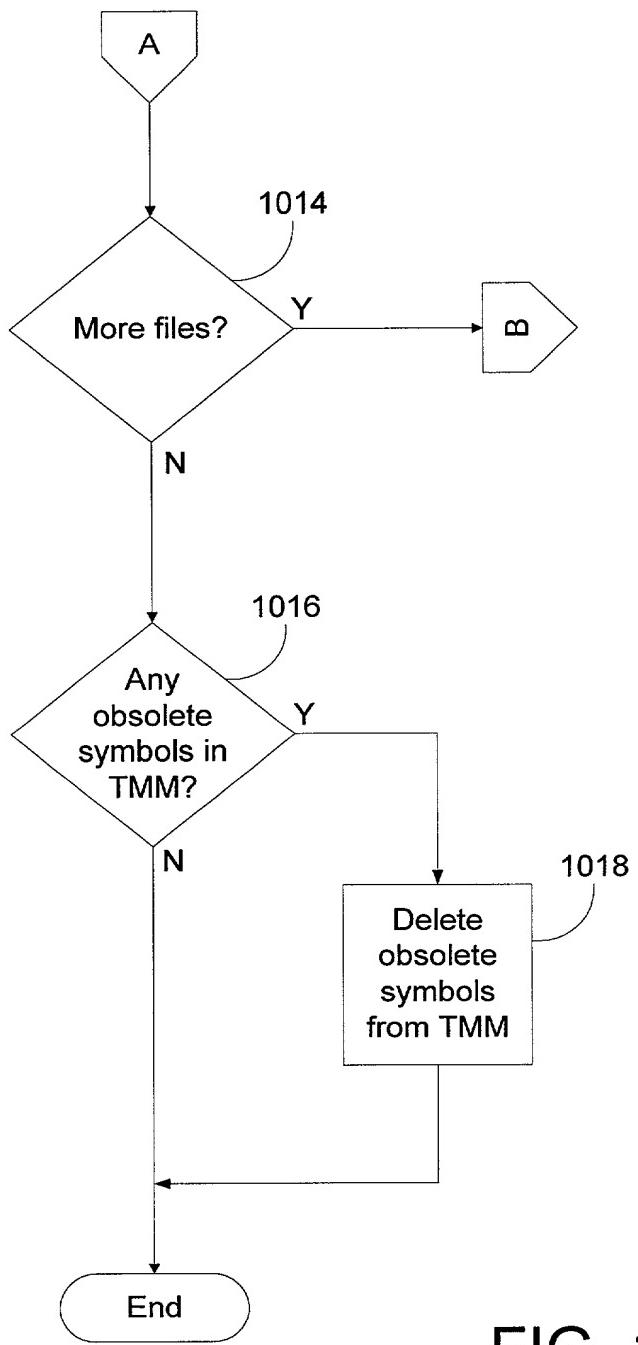


FIG. 10B

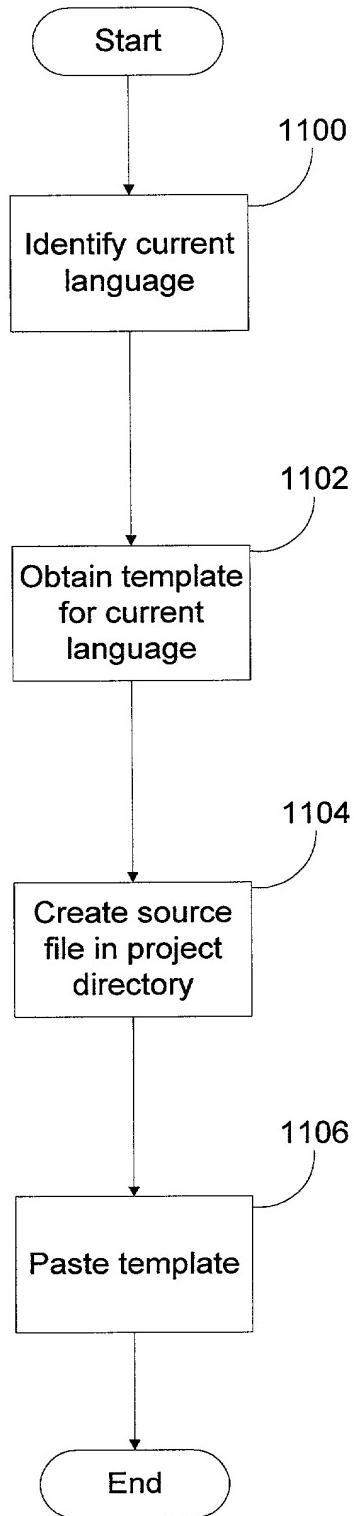


FIG. 11

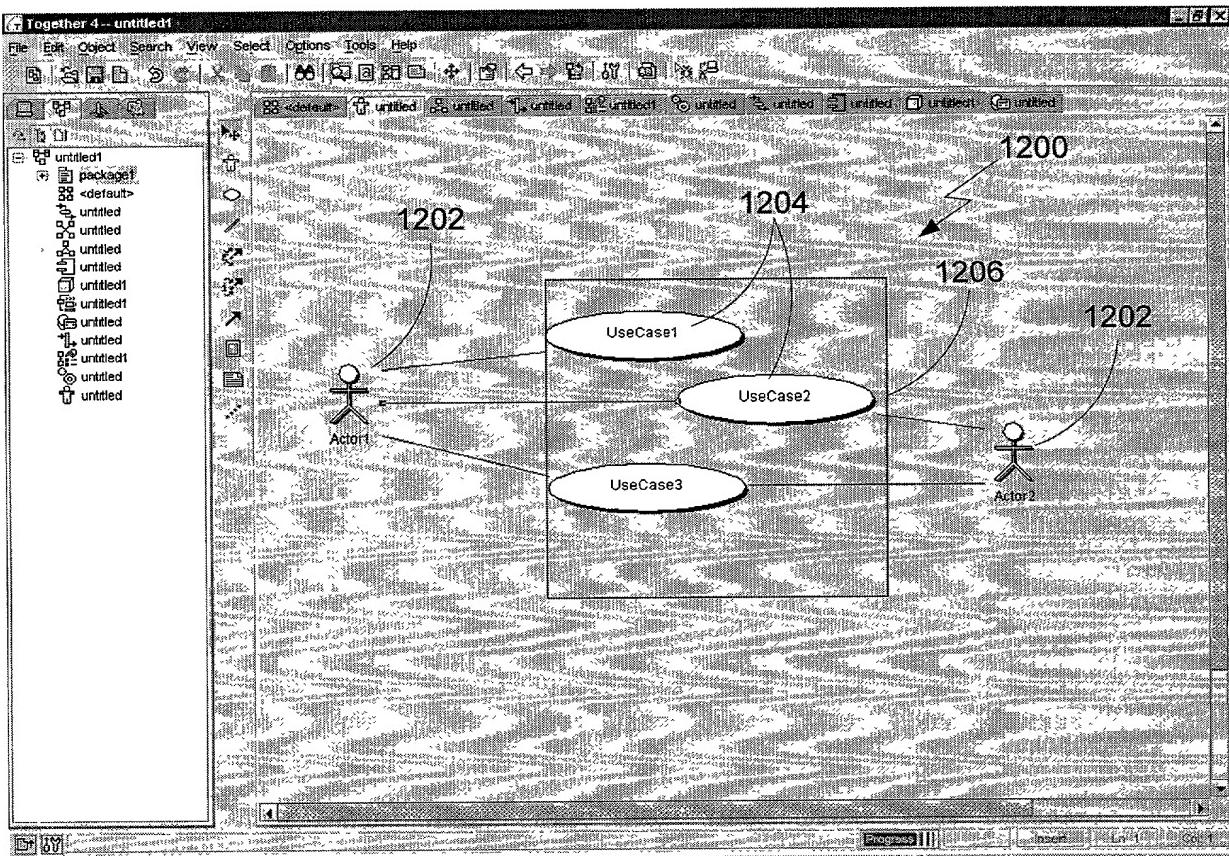


FIG. 12

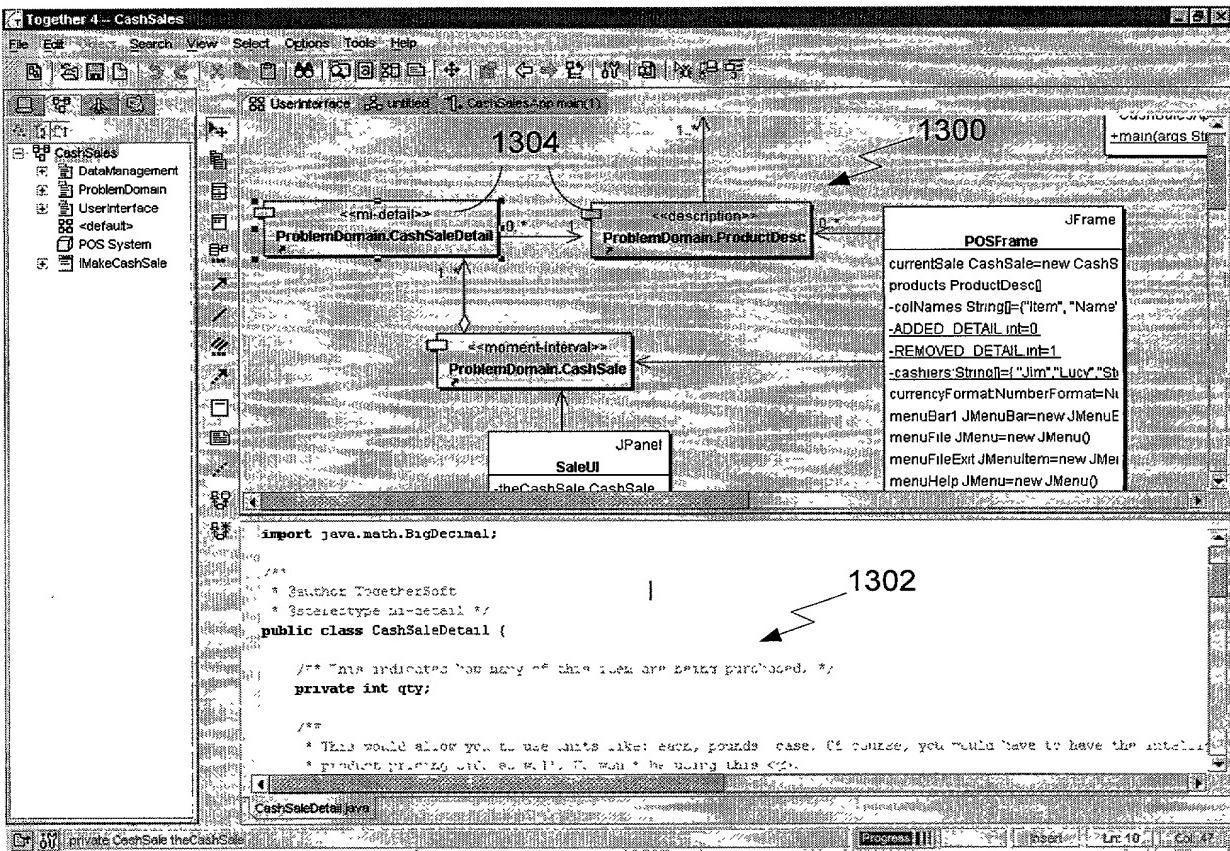


FIG. 13

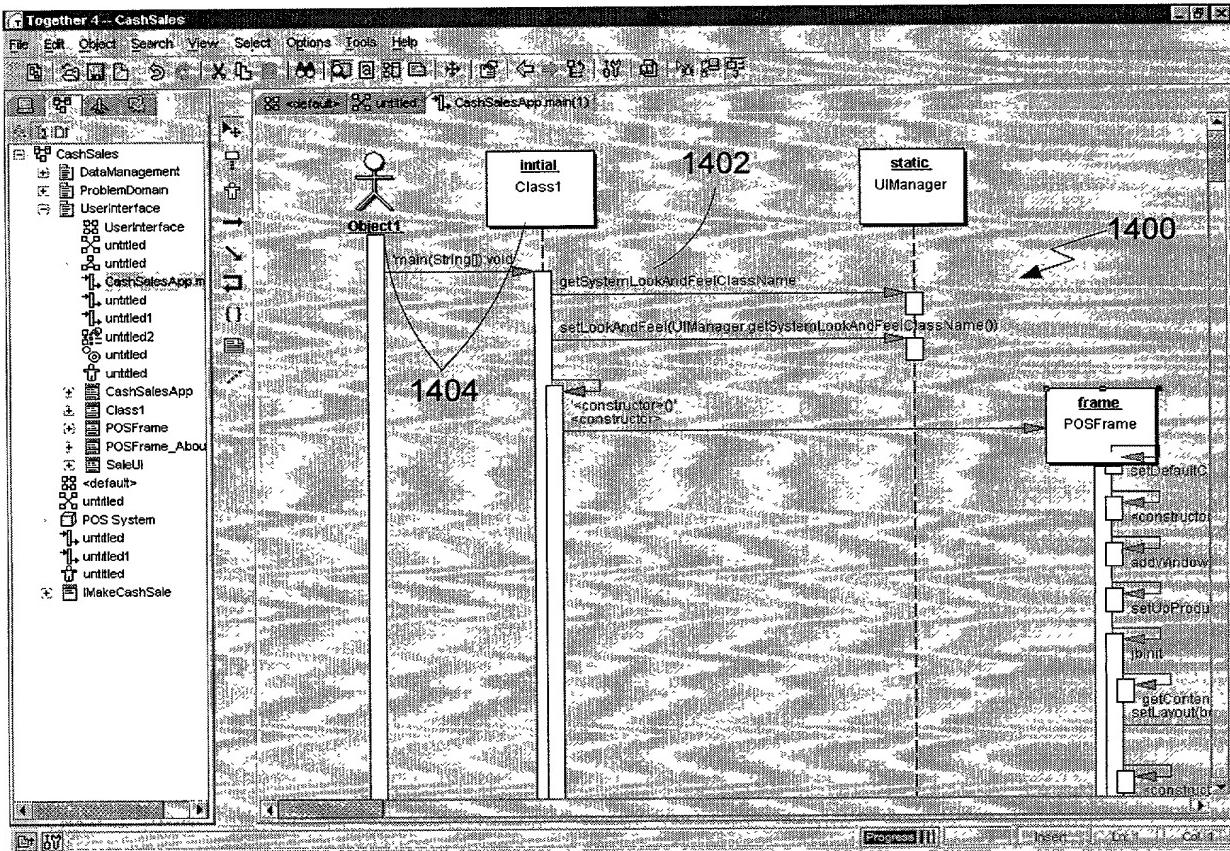


FIG. 14

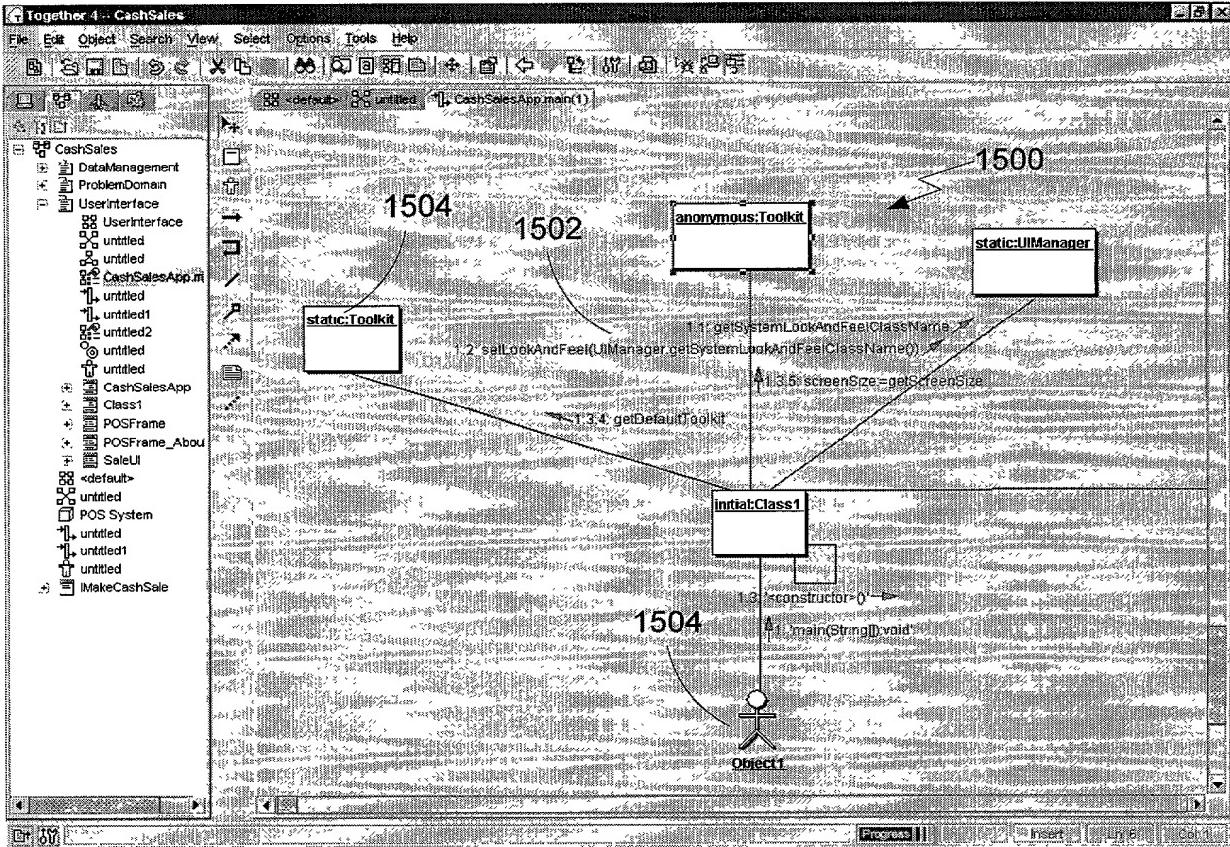


FIG. 15

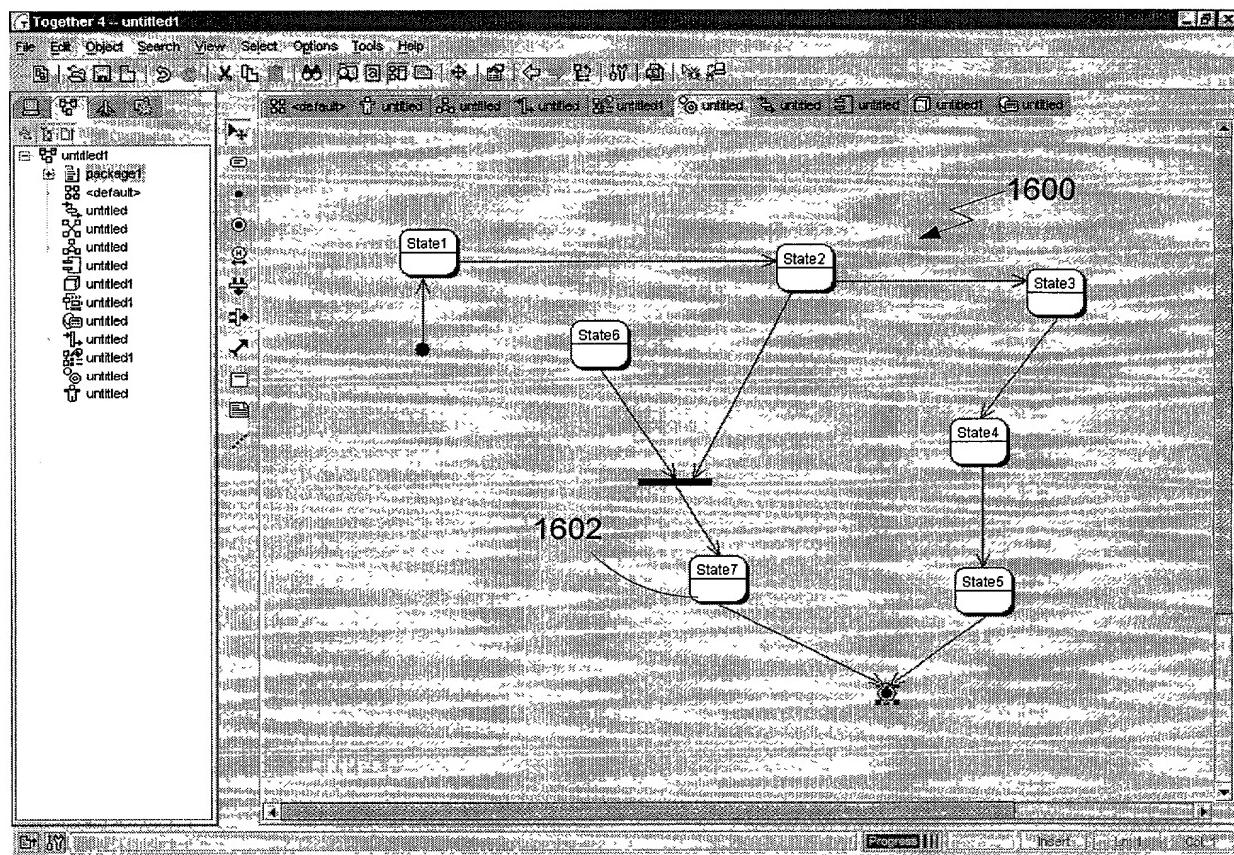


FIG. 16

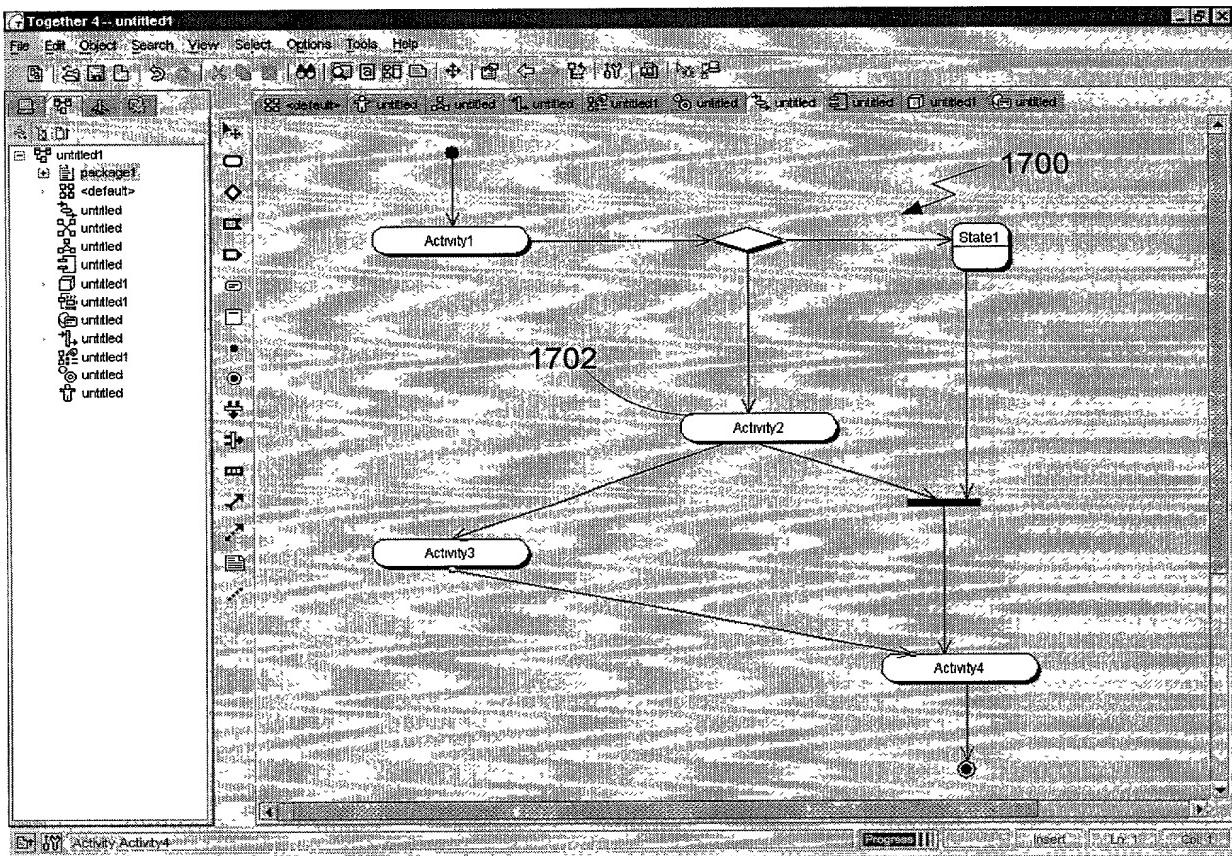


FIG. 17

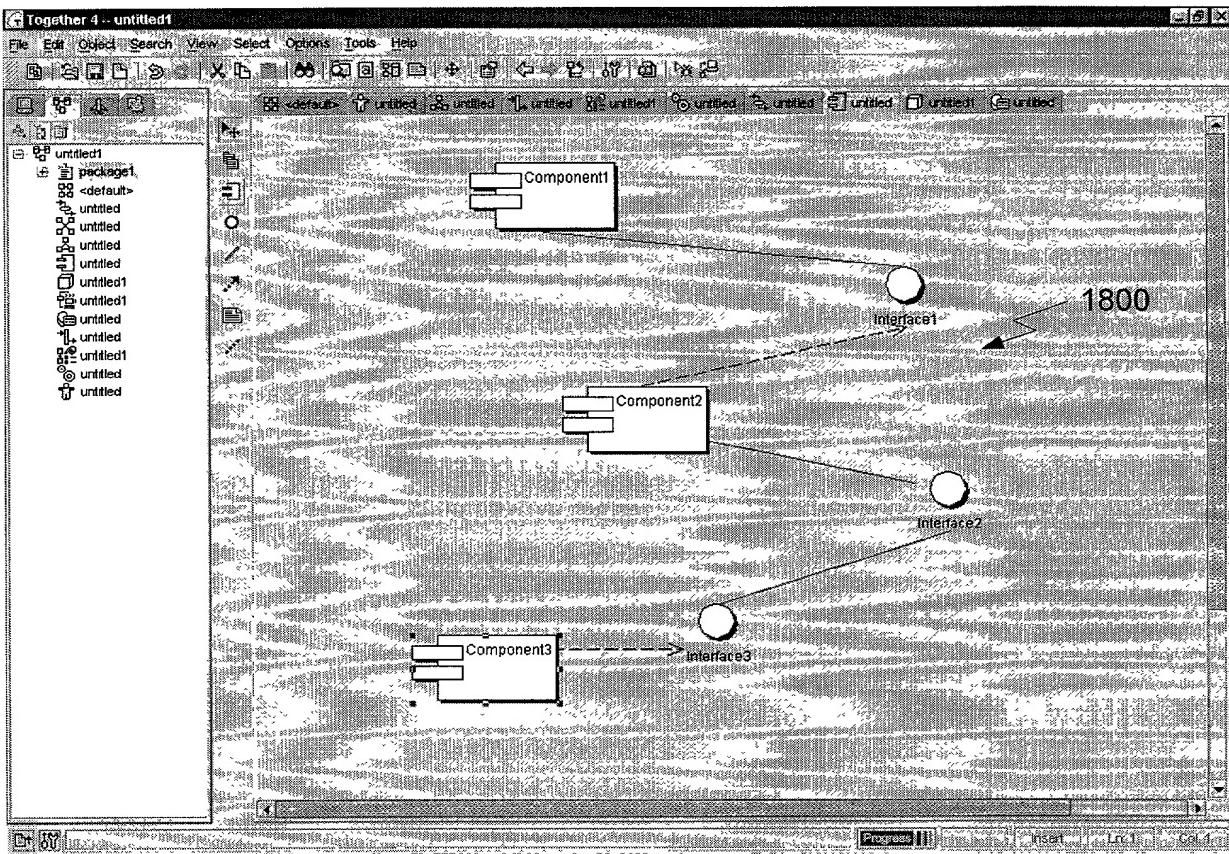


FIG. 18

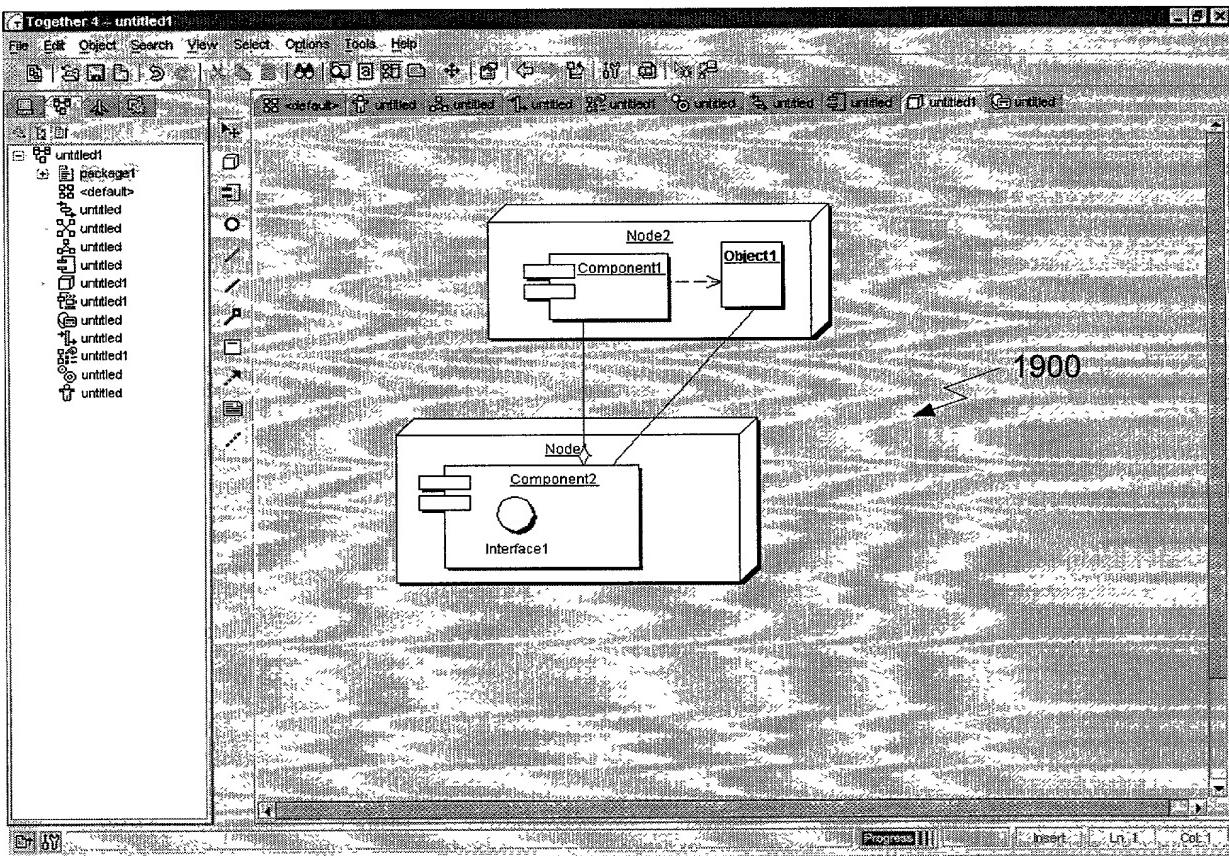


FIG. 19

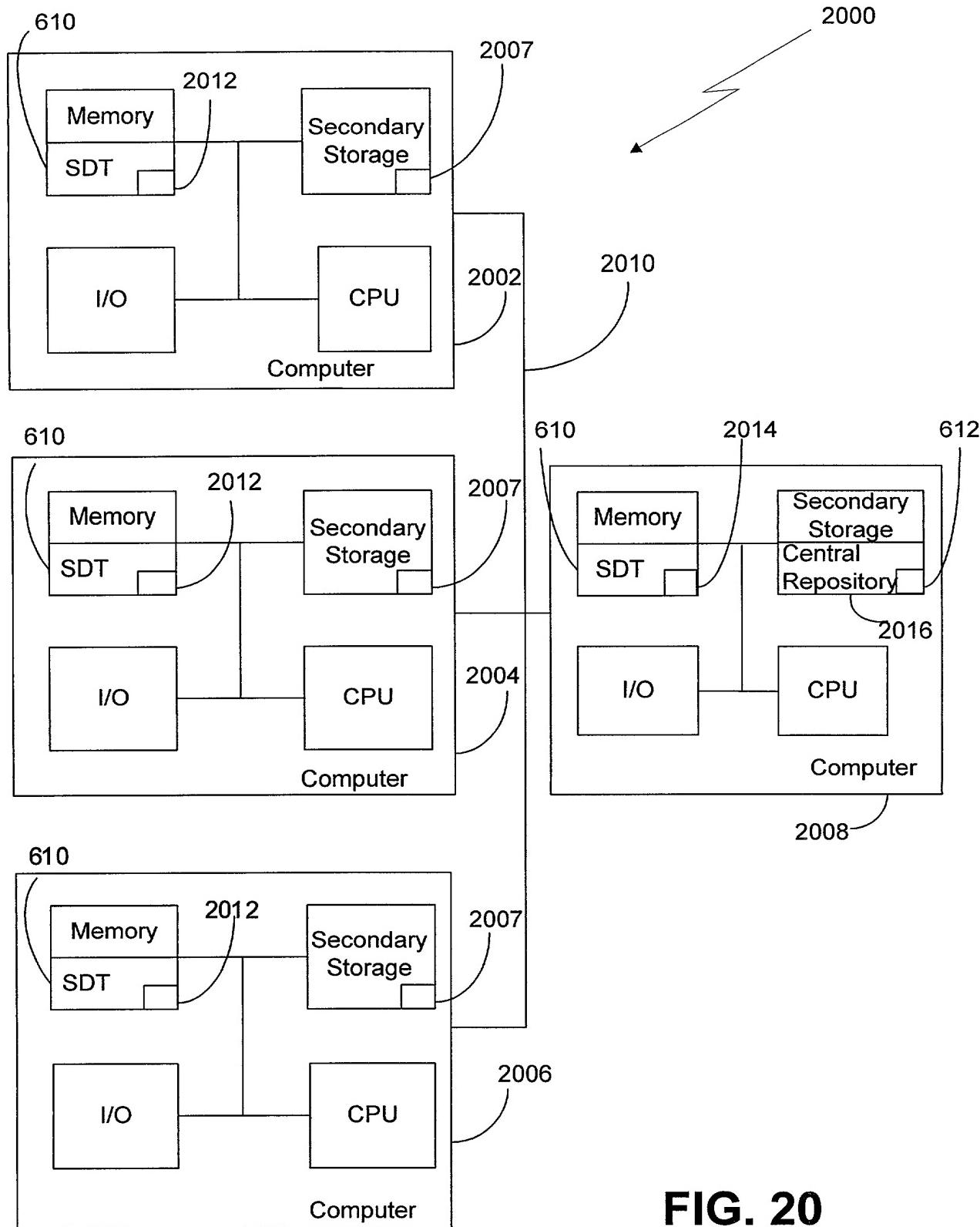


FIG. 20

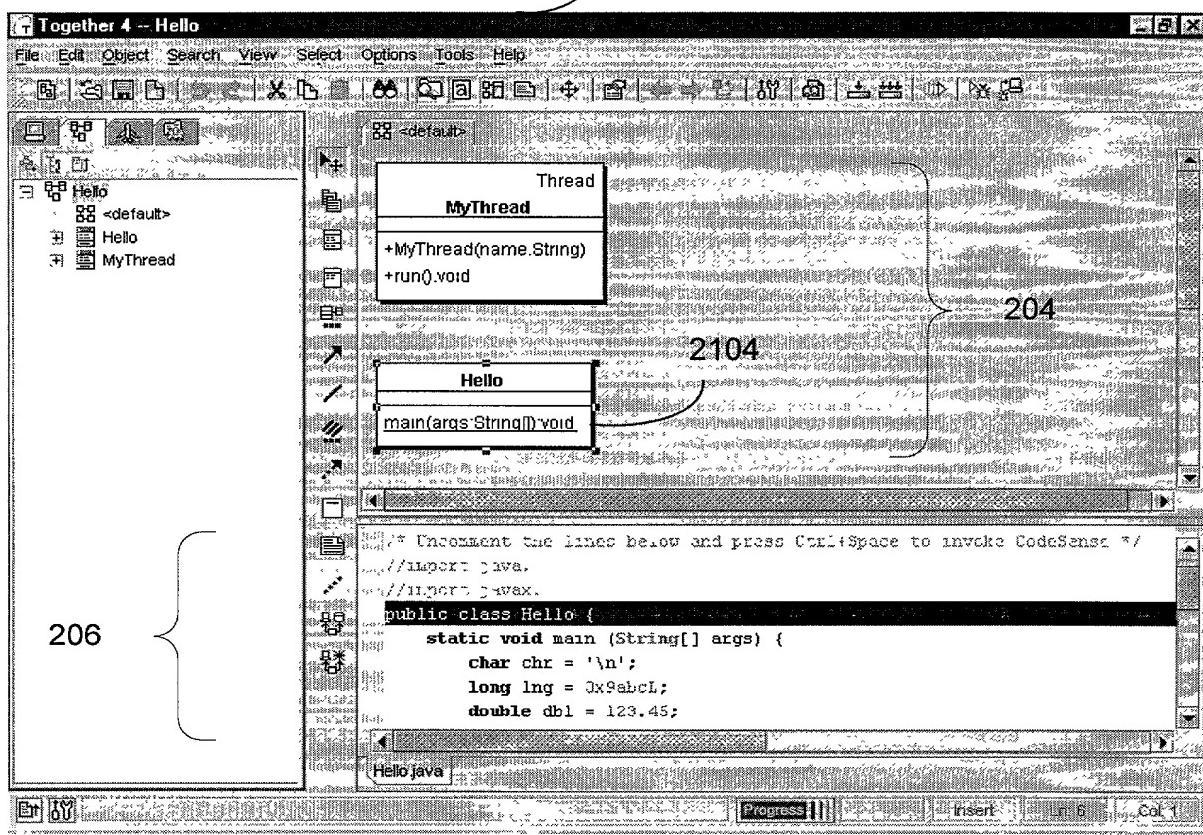


FIG. 21

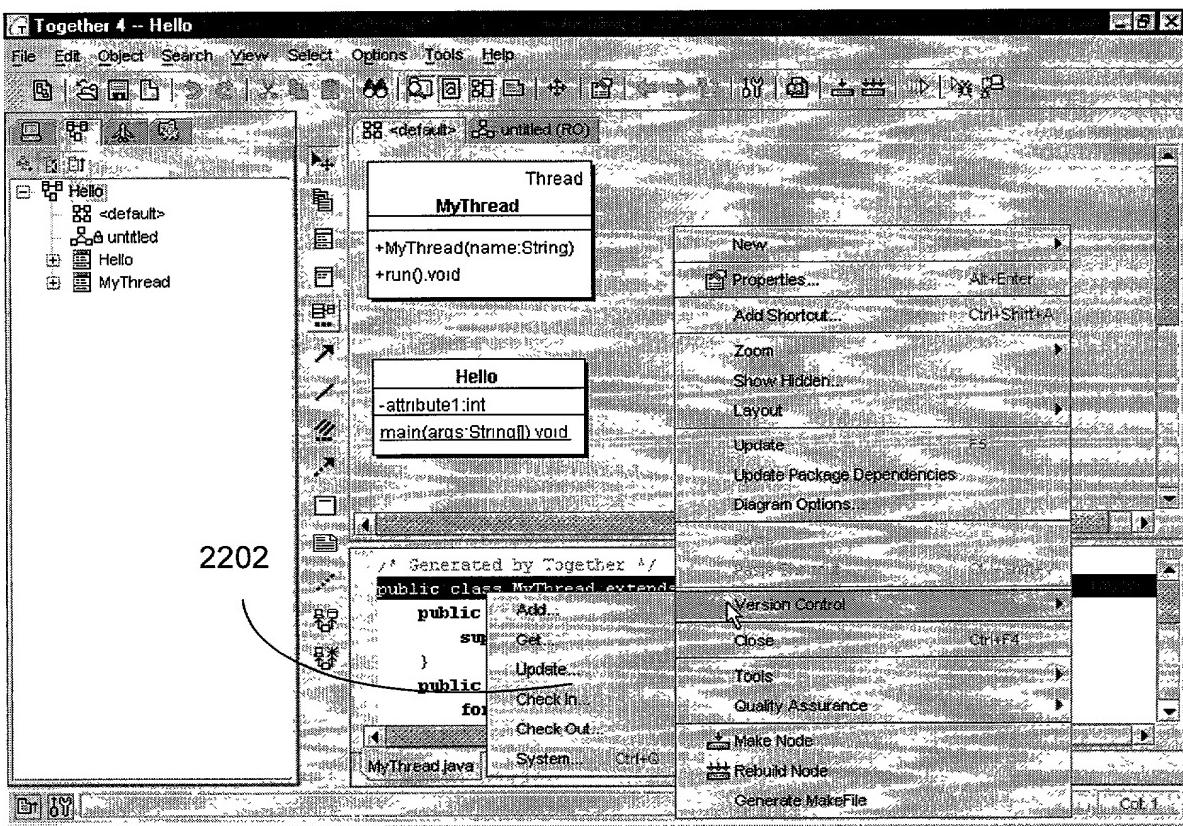


FIG. 22

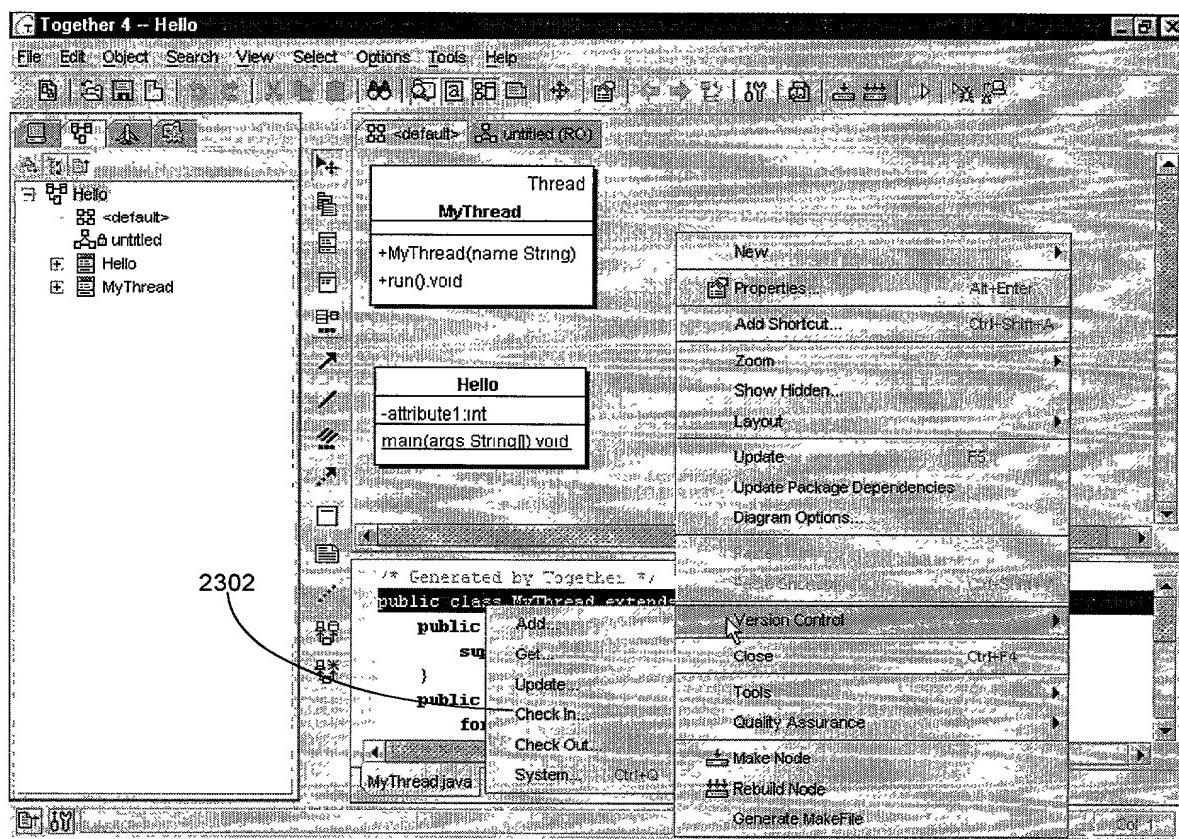


FIG. 23

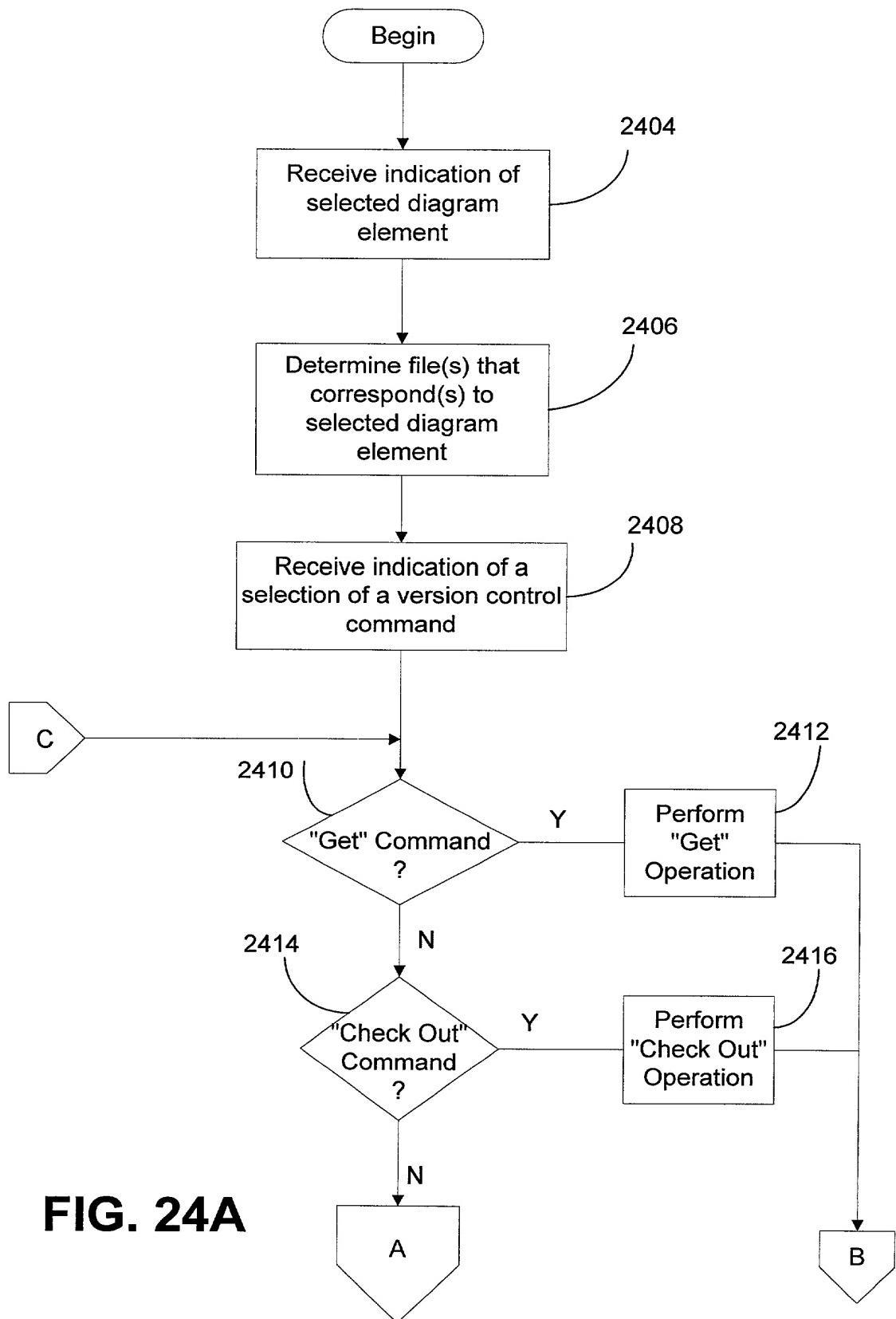


FIG. 24A

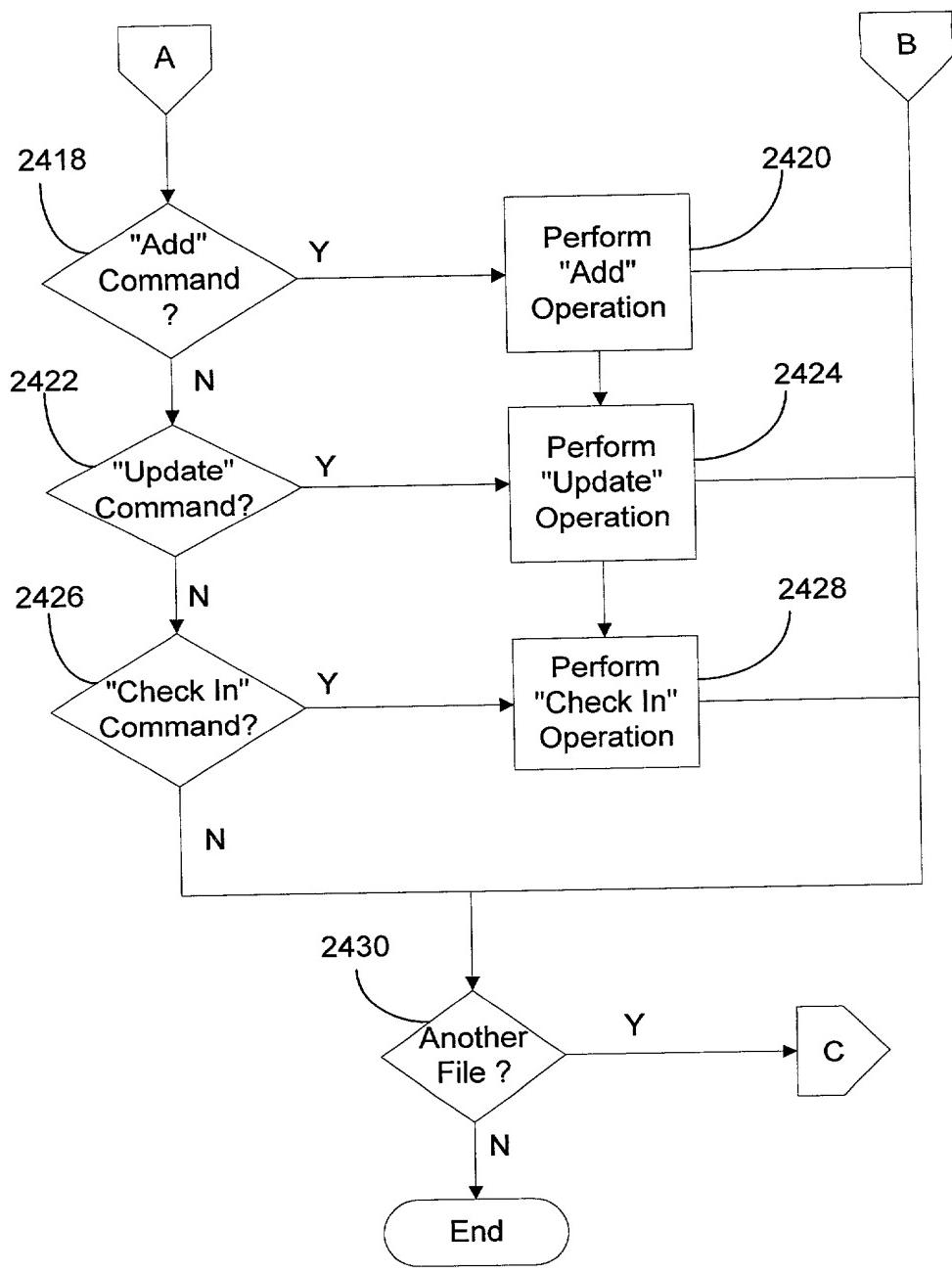


FIG. 24B